

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-43 are cancelled.

44. (currently amended) A method executed in a market surveillance computer system, the method comprising:

receiving, in the computer system, a message in a receiver object from one of a plurality of feed lines;

attaching, in the computer system, timing data from a timing object to the received message, the timing data including a time extracted from the received message[[,]] and a stamp indicating a receipt time at the receiver object and ~~other data~~;

activating, in the computer system, a translator object to translate the received message into a market event object;

assigning, in the computer system, the market event object to an entry in a queue object;

validating, in the computer system, the market event object entry; and

publishing, in the computer system, the validated market event object entry in a sender object to a plurality of alert engines that process the market event objects to detect possible alert conditions.

Claim 45 (previously presented) The method of claim 44 in which the other data comprises a message delta obtained by comparing the time extracted from the received message with times of previously received messages from the one of the plurality of feed lines.

46. (previously presented) The method of claim 44 in which assigning further comprises registering a message sequence number in an associated sequence state object, the associated sequence state object recording message order and gap data for the one of the plurality of feed lines.

47. (previously presented) The method of claim 46 in which validating comprises determining whether the market event object entry is valid using the message sequence number and gap data.

48. (previously presented) The method of claim 47 in which validating further comprises discarding duplicate messages.

49. (previously presented) The method of claim 48 in which validating further comprises tracking discarded duplicate messages.

50. (previously presented) The method of claim 44 in which publishing comprises a private network.

51. (previously presented) The method of claim 47 in which publishing further comprises updating the message sequence number.

52. (previously presented) The method of claim 44 in which the market event object comprises:

- a time stamp field;
- a message time field;
- a market session data field;
- a line field;
- a feed field;
- a feed sequence number field;
- a message type field; and

an original identification field.

53. (currently amended) An apparatus comprising:

a processor; and

a memory, the memory comprising:

a receiver object for receiving a message form one of a plurality of feed lines;

a timing object for attaching timing data to the received message, the timing data including a time extracted from the received message, a stamp indicating a receipt time at the receiver object and ~~other data~~ timing data corresponding to the time extracted from the received message and the time from a previously received message from the same feed line, to provide an estimate of an actual event time to associate with the market event;

a translator object to translate the received message into a market event object;

a queue object for receiving the market event object;

a validation object for validating the market event object entry; and

a sender object to send the validated market event object entry to a plurality of alert engines.

54. (currently amended) The apparatus of claim 52 wherein ~~in which~~ the ~~other data comprises a message delta obtained by comparing the time extracted from the received message with times of previously received messages from the one of the plurality of feed lines~~ provides an estimate of an actual event time to associate with the market event underlying the received message.

55. (previously presented) A computer program product, tangibly embodied in an information carrier, for line handling, the computer program product being operable to cause data processing apparatus to:

receive a message in a receiver object form one of a plurality of feed lines;

attach timing data from a timing object to the received message, the timing data including a time extracted from the received message, a stamp indicating a receipt time at the receiver

object and ~~other data~~ timing data corresponding to the time extracted from the received message and the time from a previously received message from the same feed line, to provide an estimate of an actual event time to associate with the market event;

activate a translator object to translate the received message into a market event object;  
assign the market event object to an entry in a queue object;  
validate the market event object entry; and  
publish the validated market event object entry in a sender object to a plurality of alert engines.

56. (previously presented) The computer program product of claim 55 in which the other data comprises a message delta obtained by comparing the time extracted from the received message with times of previously received messages from the one of the plurality of feed lines.

57. (previously presented) The computer program product of claim 55 in which assigning further comprises registering a message sequence number in an associated sequence state object, the associated sequence state object recording message order and gap data for the one of the plurality of feed lines.

58. (previously presented) The computer program product of claim 57 in which validating comprises determining whether the market event object entry is valid using the message sequence number and gap data.

59. (previously presented) The computer program product of claim 58 in which validating further comprises discarding duplicate messages.

60. (previously presented) The computer program product of claim 59 in which validating further comprises tracking discarded duplicate messages.

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61. (previously presented) The computer program product of claim 55 in which publishing comprises a private network.

62. (previously presented) The article computer program product of claim 58 in which publishing further comprises updating the message sequence number.

63. (previously presented) The computer program product of claim 55 in which the market event object comprises:

- a time stamp field;
- a message time field;
- a market session data field;
- a line field;
- a feed field;
- a feed sequence number field;
- a message type field; and
- an original identification field.